图纸编号	图纸名称
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3	PowerRail
4	HDMI/UART/RJ45
5	Peripheral
6	DIMM 200
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修改记录：

一	日期	修改人	说明
1	2019-08-12	Jack	创建
2	2020-03-23	Hans	修改为V11 版本

AIGO_C5MB_V11 Schematic

TEAM: AIGO_C5

DESIGN: Hans

CHECK: Jack

DATE: 2020/03/23

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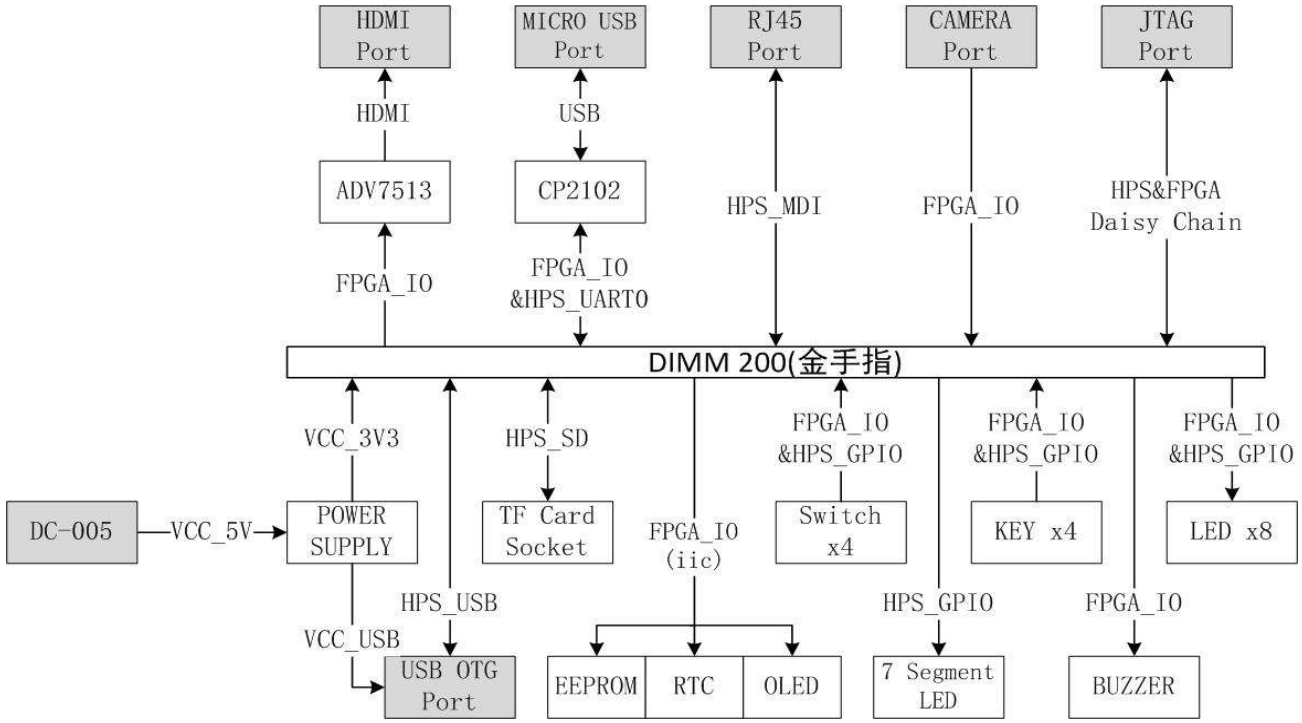
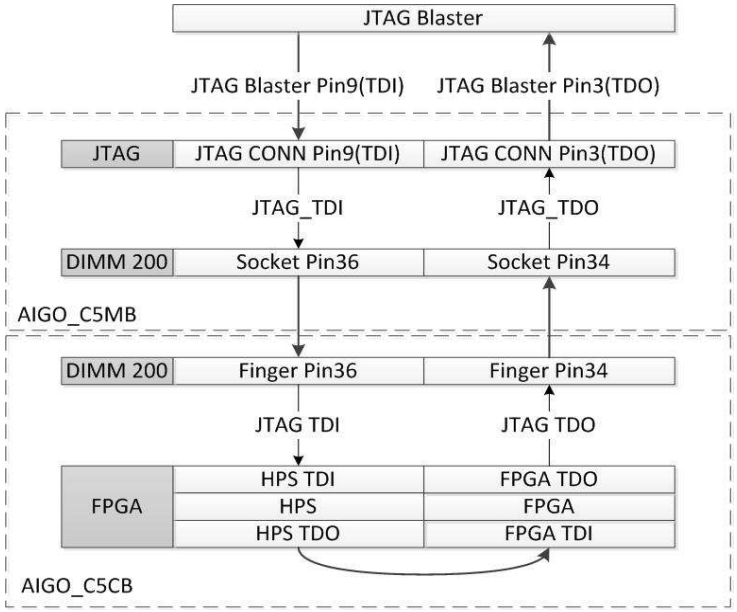
AIGO_C5MB_V11 Block Diagram



AIGO_C5CB&MB JTAG Flow



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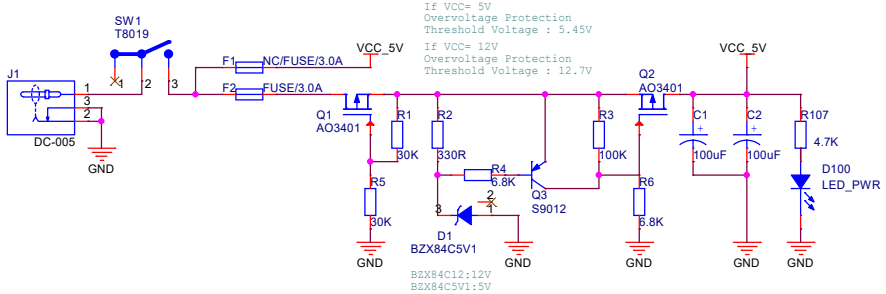
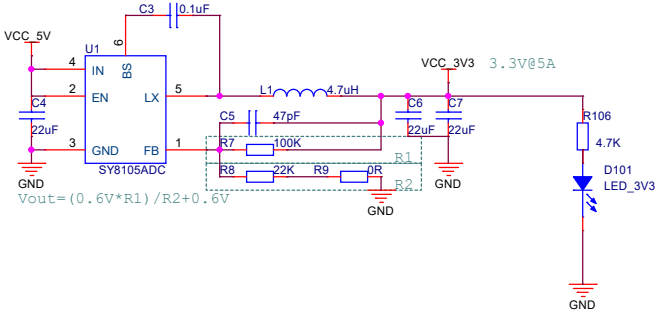
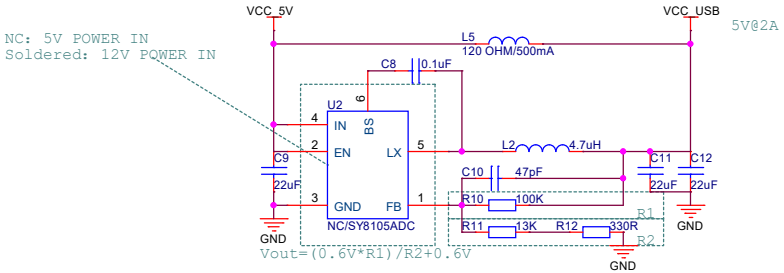
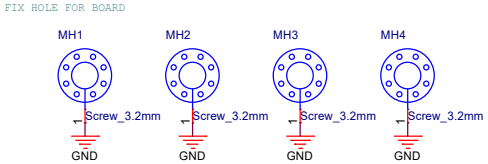


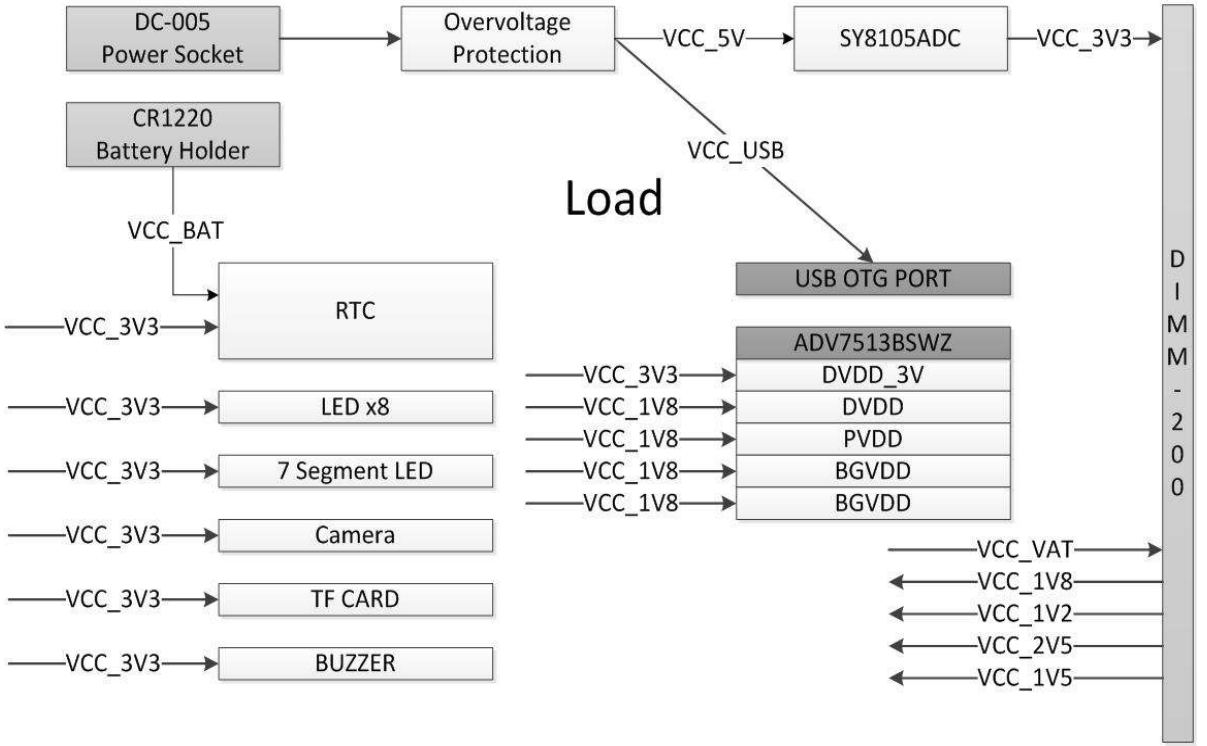






AIGO_C5MB_V11 PowerRail

Power Gen



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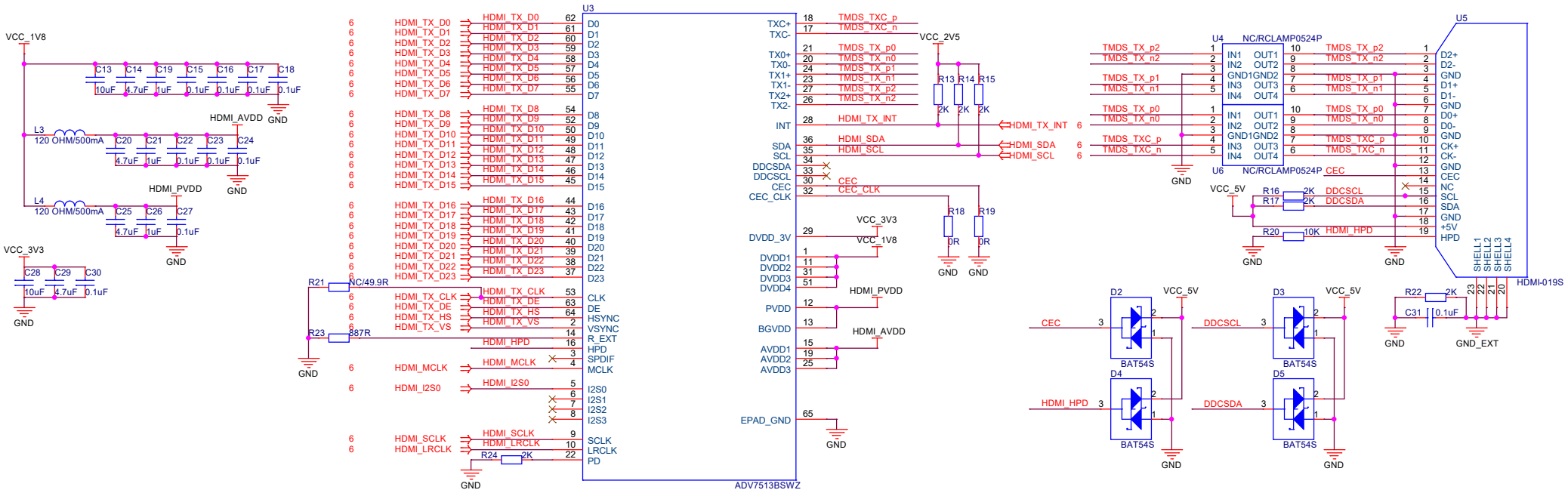
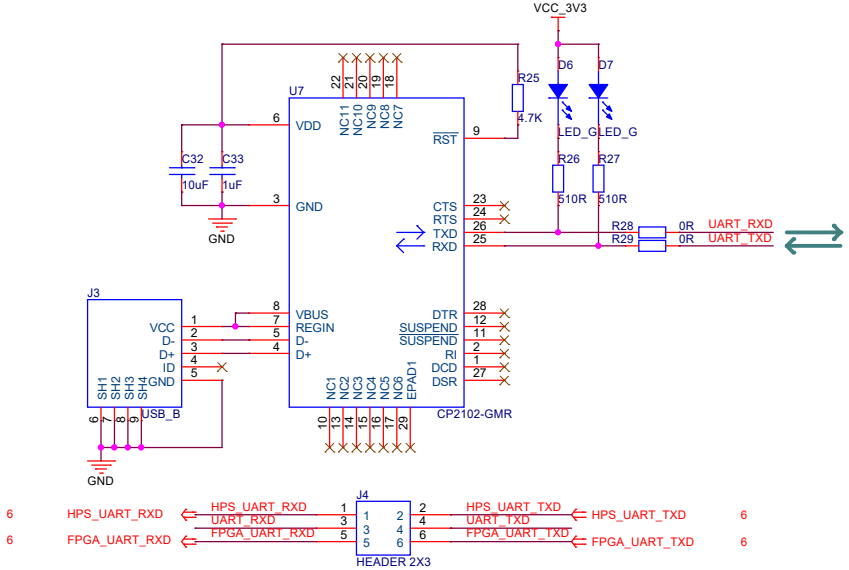
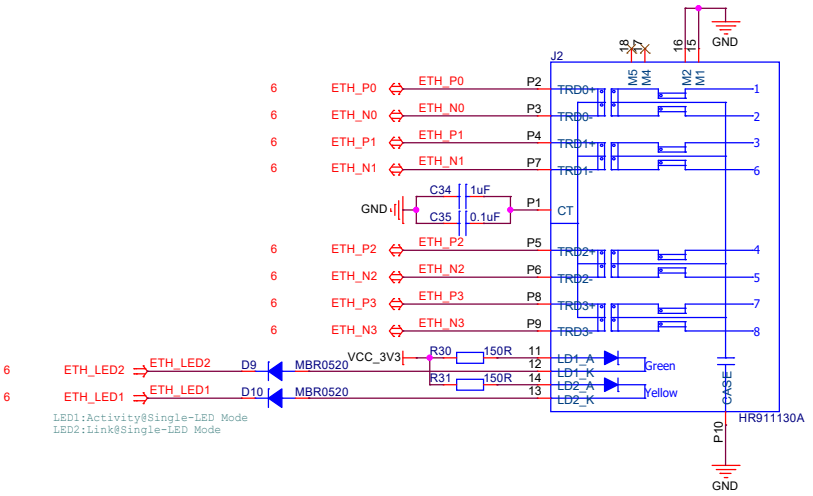
HDMI



UART->USB



RJ45



AIGO_C5		
Title: AIGO_C5MB		
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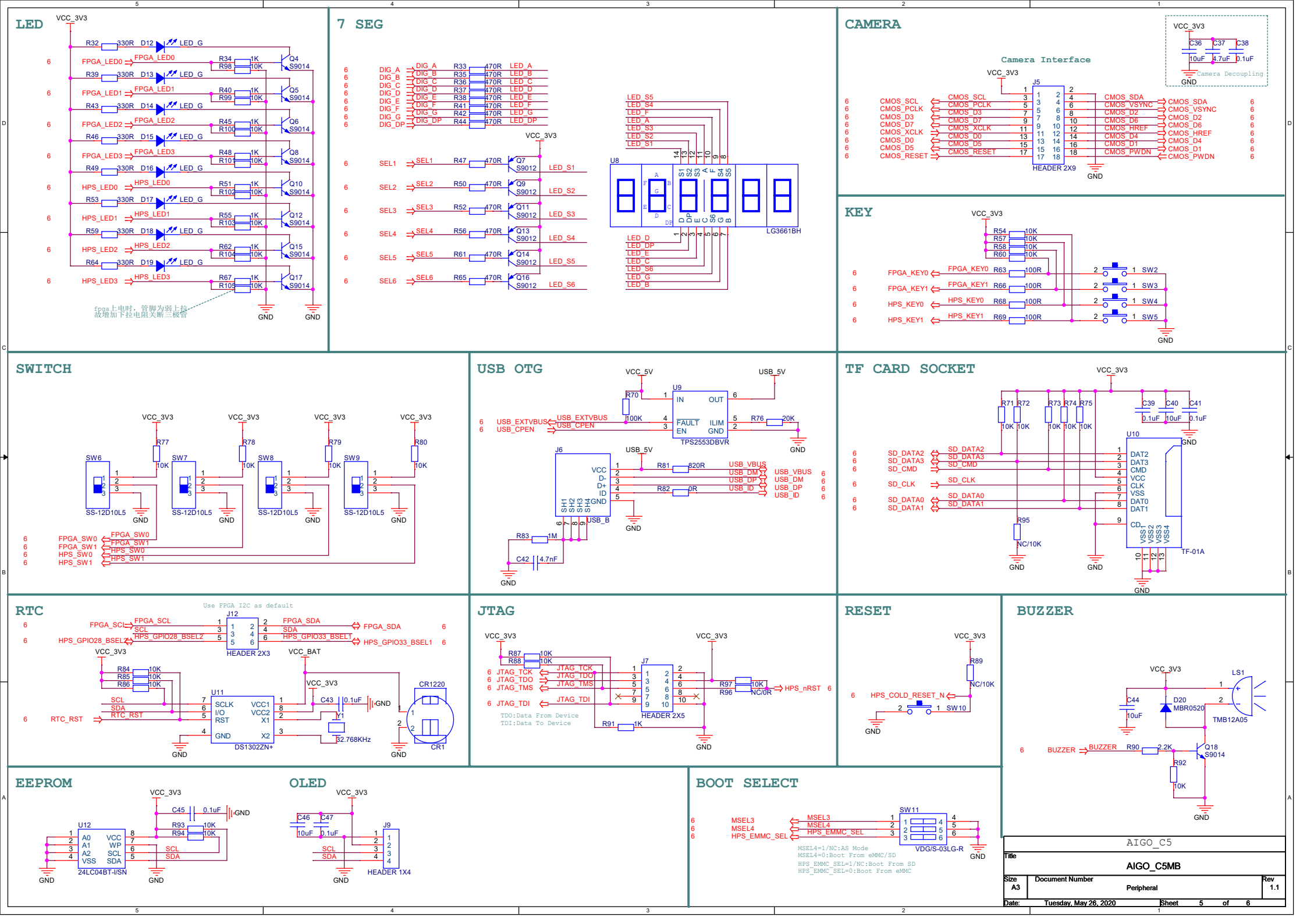
LED
7 SEG
CAMERA
KEY
SWITCH
USB OTG
TF CARD SOCKET
RTC
JTAG
RESET
BUZZER
EEPROM
OLED
BOOT SELECT
Camera Interface
Camera Decoupling
HEADER 2X9
TPS2553DBVR
TF-01A
HEADER 2X3
HEADER 2X5
DS1302ZN+
24LC04BT-I/SN
HEADER 1X4
LG3661BH
VDG/S-03LG-R
fpga上电时，管脚为弱上拉
故增加下拉电阻关断三极管
Use FPGA I2C as default
TDO:Data From Device
TDI:Data To Device
MSEL4=1/NC:AS Mode
MSEL4=0:Boot From eMMC/SD
HPS_EMMC_SEL=1/NC:Boot From SD
HPS_EMMC_SEL=0:Boot From eMMC
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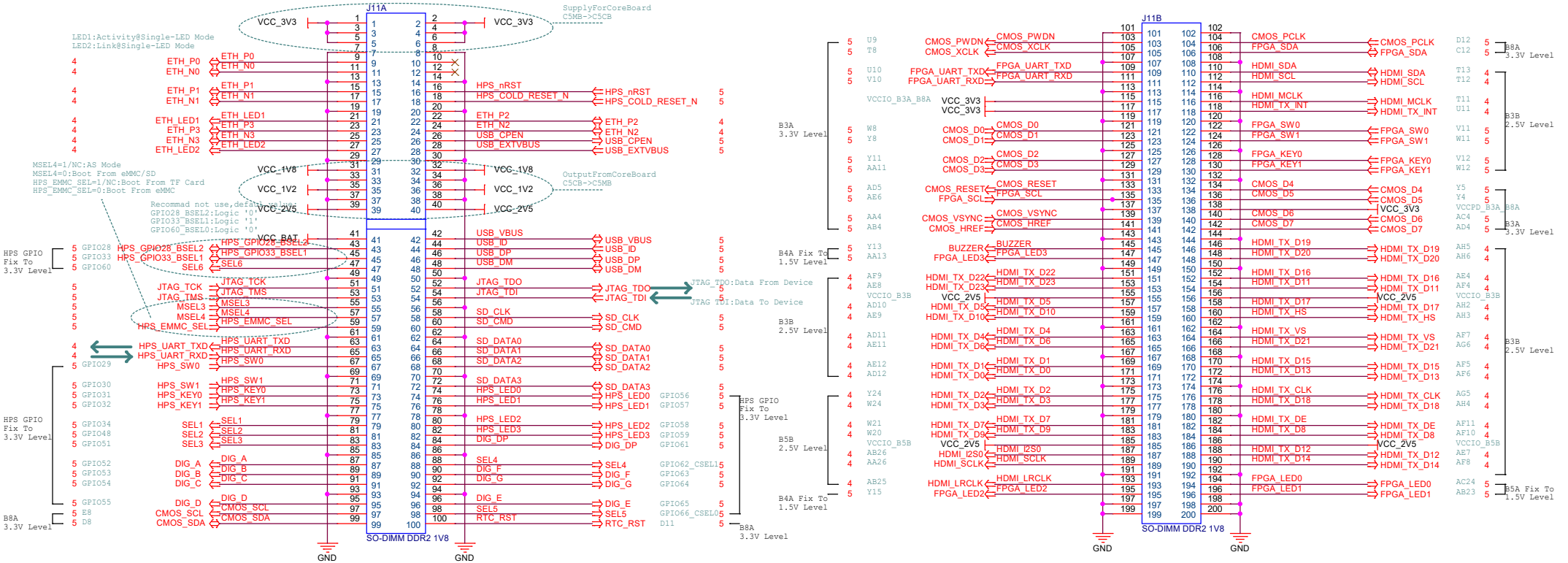

Supported Voltage Ranges

Power	Direction	Range	Current	Annotation
VCC_3V3	MB->CB	3.3V	TBD	core board main power
VCCIO_B3B	MB->CB	1.2-2.5V	TBD	Bank 3B IO Power
VCCIO_B5B	MB->CB	1.2-3.3V	TBD	Bank 5B IO Power
VCCPD_B5B	MB->CB	1.2-3.3V(*)	TBD	Bank 5B IO Pre Driver
VCCIO_B3A_B8A	MB->CB	1.2-3.3V	TBD	Bank 3A/8A IO Power
VCCPD_B3A_B8A	MB->CB	2.5-3.3V(*)	TBD	Bank 3A/8A IO Pre Driver
VCC_BAT	MB->CB	2.0-3.6V	TBD	Backup Battery Power
VCC_1V2	CB->MB	1.2V	TBD	1A max
VCC_1V8	CB->MB	1.8V	TBD	1A max
VCC_2V5	CB->MB	2.5V	TBD	1.5A max

(*)if VCCIO_B5B>=2.5V,VCCPD_B5B=VCCIO_B5B
if VCCIO_B5B<2.5V,VCCPD_B5B=2.5V
(*)if VCCIO_B3A_B8A>=2.5V,VCCPD_B3A_B8A=VCCIO_B3A_B8A
if VCCIO_B3A_B8A<2.5V,VCCPD_B3A_B8A=2.5V

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